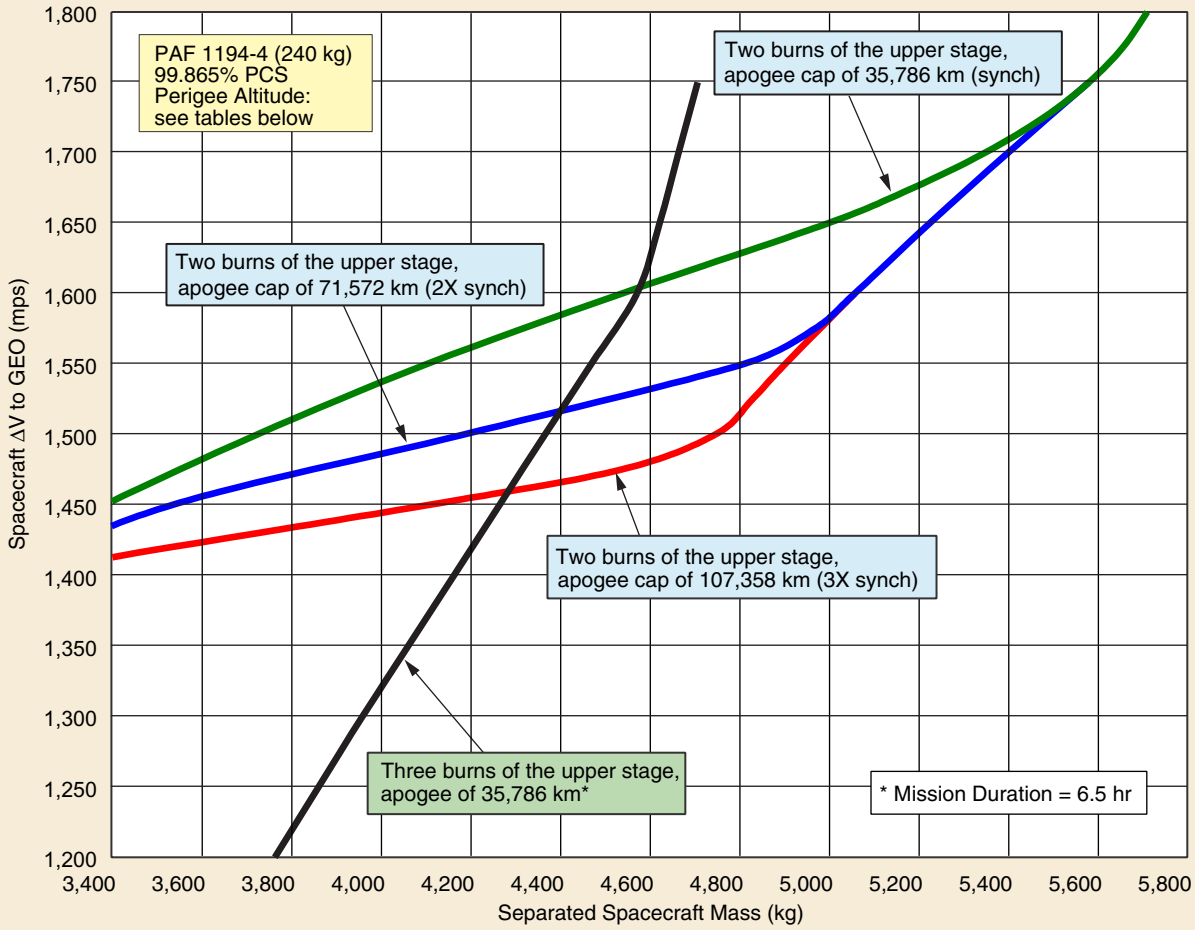
1T301010.7



Two-Burn Apogee Cap = 35,786 km (Synch)	
Spacecraft ΔV to GEO	Orbit Perigee Altitude by Apogee Altitude at Inclination
1,800 m/sec	213 x 35,786 km at 26.9 deg
1,750 m/sec	219 x 35,786 km at 24.5 deg
1,700 m/sec	223 x 35,786 km at 22.0 deg
1,650 m/sec	235 x 35,786 km at 19.3 deg
1,600 m/sec	472 x 35,786 km at 17.5 deg
1,550 m/sec	1,050 x 35,786 km at 17.2 deg
1,500 m/sec	1,869 x 35,786 km at 17.8 deg
1,450 m/sec	3,179 x 35,786 km at 19.4 deg

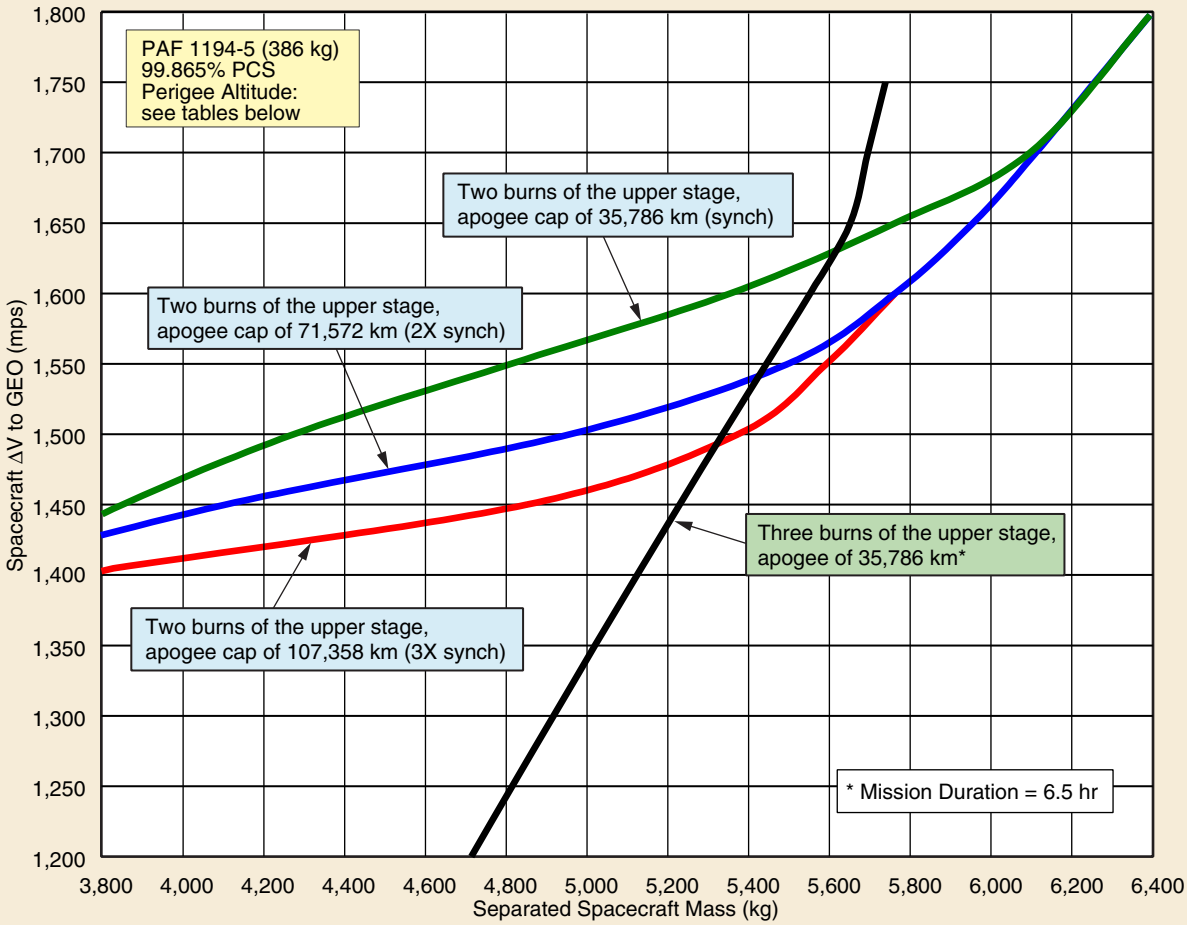
Two-Burn Apogee Cap = 71,572 km (2X Synch)	
Spacecraft ΔV to GEO	Orbit Perigee Altitude by Apogee Altitude at Inclination
1,750 m/sec	218 x 35,796 km at 24.5 deg
1,700 m/sec	217 x 43,437 km at 25.1 deg
1,650 m/sec	213 x 53,691 km at 25.8 deg
1,600 m/sec	211 x 67,577 km at 26.5 deg
1,550 m/sec	220 x 71,572 km at 23.1 deg
1,500 m/sec	429 x 71,572 km at 18.8 deg
1,450 m/sec	1,547 x 71,572 km at 19.2 deg
1,400 m/sec	4,866 x 36,792 km at 20.9 deg

Two-Burn Apogee Cap = 107,358 km (3X Synch)	
Spacecraft ΔV to GEO	Orbit Perigee Altitude by Apogee Altitude at Inclination
1,600 m/sec	211 x 67,570 km at 26.5 deg
1,550 m/sec	209 x 86,575 km at 27.2 deg
1,500 m/sec	211 x 107,356 km at 26.3 deg
1,450 m/sec	291 x 107,358 km at 19.1 deg
1,400 m/sec	4,866 x 36,792 km at 20.9 deg

Three-Burn Apogee = 35,786 km	
Spacecraft ΔV to GEO	Orbit Perigee Altitude by Apogee Altitude at Inclination
1,750 m/sec	391 x 33,106 km at 22.9 deg
1,700 m/sec	1,432 x 34,127 km at 22.7 deg
1,650 m/sec	1,452 x 35,182 km at 22.5 deg
1,600 m/sec	1,523 x 35,786 km at 21.6 deg
1,550 m/sec	1,875 x 35,786 km at 20.3 deg
1,500 m/sec	2,284 x 35,786 km at 19.2 deg
1,450 m/sec	2,714 x 35,786 km at 18.1 deg
1,400 m/sec	3,167 x 35,786 km at 17.0 deg
1,350 m/sec	3,663 x 35,786 km at 16.1 deg
1,300 m/sec	4,209 x 35,786 km at 15.2 deg
1,250 m/sec	4,733 x 35,786 km at 14.3 deg
1,200 m/sec	5,297 x 35,786 km at 13.4 deg

Figure 2-39. Delta IV-M+ (4,2) GTO Performance Capability

1T301009.7



Two-Burn Apogee Cap = 35,786 km (Synch)	
Spacecraft ΔV to GEO	Orbit Perigee Altitude by Apogee Altitude at Inclination
1,800 m/sec	322 x 35,786 km at 27.2 deg
1,700 m/sec	354 x 35,786 km at 22.5 deg
1,650 m/sec	375 x 35,786 km at 19.9 deg
1,600 m/sec	429 x 35,786 km at 17.2 deg
1,550 m/sec	574 x 35,786 km at 14.8 deg
1,500 m/sec	1,425 x 35,786 km at 16.0 deg
1,450 m/sec	2,238 x 35,786 km at 16.5 deg
1,400 m/sec	3,329 x 35,786 km at 17.5 deg

Two-Burn Apogee Cap = 71,572 km (2X Synch)	
Spacecraft ΔV to GEO	Orbit Perigee Altitude by Apogee Altitude at Inclination
1,800 m/sec	322 x 35,786 km at 27.2 deg
1,700 m/sec	338 x 39,795 km at 24.1 deg
1,650 m/sec	338 x 49,371 km at 24.8 deg
1,600 m/sec	335 x 62,380 km at 25.4 deg
1,550 m/sec	350 x 71,569 km at 23.7 deg
1,500 m/sec	431 x 71,570 km at 18.8 deg
1,450 m/sec	987 x 71,572 km at 16.2 deg
1,400 m/sec	2,479 x 71,572 km at 18.3 deg

Two-Burn Apogee Cap = 107,358 km (3X Synch)	
Spacecraft ΔV to GEO	Orbit Perigee Altitude by Apogee Altitude at Inclination
1,575 m/sec	332 x 71,199 km at 25.9 deg
1,550 m/sec	332 x 80,995 km at 26.2 deg
1,500 m/sec	327 x 107,069 km at 26.7 deg
1,450 m/sec	413 x 107,358 km at 19.8 deg
1,400 m/sec	1,297 x 107,358 km at 16.7 deg

Three-Burn Apogee = 35,786 km	
Spacecraft ΔV to GEO	Orbit Perigee Altitude by Apogee Altitude at Inclination
1,750 m/sec	1,123 x 35,786 km at 27.1 deg
1,700 m/sec	1,140 x 35,786 km at 25.0 deg
1,650 m/sec	1,312 x 35,786 km at 23.3 deg
1,600 m/sec	1,529 x 35,786 km at 21.6 deg
1,550 m/sec	1,927 x 35,786 km at 20.5 deg
1,500 m/sec	2,350 x 35,786 km at 19.4 deg
1,450 m/sec	2,794 x 35,786 km at 18.3 deg
1,400 m/sec	3,260 x 35,786 km at 17.3 deg
1,350 m/sec	3,743 x 35,786 km at 16.3 deg
1,300 m/sec	4,265 x 35,786 km at 15.4 deg
1,250 m/sec	4,816 x 35,786 km at 14.5 deg
1,200 m/sec	5,379 x 35,786 km at 13.6 deg

Figure 2-40. Delta IV-M+ (5,4) GTO Performance Capability